## SIEMENS

## Data sheet

## 6GT2891-4EH50

product type designation product description

Cable RS422, wire end sleeves / M12

Highly flexible communication line (6-core)

SIMATIC RF, MV plug-in cable, with bare end, between ASM 475 and reader, or 24 V cable for RF61XR, RF650R, RF68XR, PUR, trailing, length 5 m.



cable designation       L-YC11Y 6x1x0 25 6x24AWG CM         wire length       5 m         number of electrical connections       2         type of electrical connection       wire end sleeves (labeled) / M12 (female, 8 pin, straight)         loop resistance coefficient       20 G2/m         oparating voltage	suitability for use	Plug-in cable for connecting a reader to the ASM 475 communication module or 24V power supply of the RF61xR, RF650R and RF68xR readers
oldectrical data         2           number of electrical connections         2           type of electrical connection         wire end sleeves (labeled) / M12 (female, 8 pin, straight)           loop resistance per length / maximum         160 mO/m           insulation resistance coefficient         20 GQ·m           operating voltage         -           • maximum         300 V           mechanical data         -           number of electrical cores         6           design of the shield         Datable shield ande of tin-plated copper wires           outer diameter         -           • of cable sheath         5.4 mm           symmetrical tolerance of the outer diameter / of cable sheath         0.2 mm           material         -           • of cable sheath         PUC           • of cable sheath         PUR           color         -           • of the wire insulation of data wires         DIN 47100           • of cable sheath         Black           bending radius         -           • with multiple bends / minimum permissible         21.6 mm           • with number of bending cycles         3000000           tensile load / maximum         200 N           weight per length         45	cable designation	L-YC11Y 6x1x0.25 6x24AWG CM
number of electrical connections         2           type of electrical connection         wire end sleeves (labeled) / M12 (female, 8 pin, straight)           loop resistance coefficient         20 GQ-m           operating voltage         300 V           • maximum         300 V           mochanical data         1           number of electrical cores         6           design of the shield         Braided shield made of tin-plated copper wires           outer diameter         -           - of cable sheath         5.4 mm           symmetrical tolerance of the outer diameter / of cable sheath         0.2 mm           material         -           - of cable sheath         PUR           color         -           - of the insulation of data wires         DIN 47100           - of cable sheath         Black           bending radius         -           - with single bend / minimum permissible         21.6 mm           - with continuous bending         75 mm           - mumber of bending cycles         3000000           tensile load / maximum         200 N           weight per length         45 kg/km           ensilitor of data wires         -           - oding operation         -30 +80 °C	wire length	5 m
type of electrical connection         wire end sleeves (labeled) / M12 (female, 8 pin, straight)           loop resistance per length / maximum         160 m0/m           insulation resistance coefficient         20 GΩm           operating voltage         -           • maximum         300 V           rmechanical data         -           number of electrical cores         6           design of the shield         Braided shield made of tin-plated copper wires           outer diameter         -           • of cable sheath         5.4 mm           symmetrical tolerance of the outer diameter / of cable sheath         0.2 mm           • of the wire insulation         PVC           • of able sheath         PUR           color         -           • of the insulation of data wires         DIN 47100           • of able sheath         Black           bending radius         -           • with single bend / minimum permissible         21.6 mm           • with ortinuous bending         75 mm           number of elengheration         200 N           weight per length         45 kg/km           ambient temperature         -           • during storage         -30 +80 °C           • during installation	electrical data	
loop resistance per length / maximum       160 mΩ/m         insulation resistance coefficient       20 GΩ·m         operating voltage	number of electrical connections	2
Insulation resistance coefficient       20 GO:m         operating voltage       300 V         mechanical data       mother of electrical cores       6         design of the shield       Braided shield made of tin-plated copper wires         outer diameter       -         of cable sheath       5.4 mm         symmetrical tolerance of the outer diameter / of cable sheath       0.2 mm         material       -         of the insulation       PVC         of cable sheath       PUR         color       -         of acable sheath       Black         bending radus       -         with nultiple bend / minimum permissible       21.6 mm         with nultiple bend / minimum permissible       43 mm         with nultiple bend / minimum permissible       44 mm         with ontinuous bending       75 mm         number of bending cycles       3000000         tensile load / maximum       200 N         weight per length       45 kg/km         ambient conditions       -30 +80 °C         -during operation       -30 +80 °C         -during installation       -30 +80 °C         -during installation       -30 +80 °C         -during installation	type of electrical connection	wire end sleeves (labeled) / M12 (female, 8 pin, straight)
operating voltage       300 V         mechanical data	loop resistance per length / maximum	160 mΩ/m
• maximum       300 V         mechanical data       •         number of electrical cores       6         design of the shield       Braided shield made of tin-plated copper wires         outer diameter       •         • of cable sheath       5.4 mm         symmetrical tolerance of the outer diameter / of cable sheath       0.2 mm         material       0.2 mm         • of the wire insulation       PVC         • of cable sheath       PUR         color       •         • of the insulation of data wires       DIN 47100         • of cable sheath       Black         bending radius       •         • with single bend / minimum permissible       21.6 mm         • with single bend / minimum permissible       43 mm         • with ontinuous bending       75 mm         number of bending cycles       3000000         tensile load / maximum       200 N         weight per length       45 kg/km         ambient conditions       -30 +80 °C         • during staragentica       -30 +80 °C         • during installation       -30 +80 °C         • during installation       -30 +80 °C         • during installation       -30 +80 °C	insulation resistance coefficient	20 GΩ·m
Immechanical data           number of electrical cores         6           design of the shield         Braided shield made of tin-plated copper wires           outer diameter         -           - of cable sheath         5.4 mm           symmetrical tolerance of the outer diameter / of cable sheath         0.2 mm           material         -           - of the wire insulation         PVC           - of cable sheath         PUR           color         -           - of the insulation of data wires         DIN 47100           - of cable sheath         Black           bending radius         -           - with single bend / minimum permissible         21.6 mm           - with continuous bending         75 mm           number of bending cycles         3000000           tensile load / maximum         200 N           weight per length         45 kg/km           ambient conditions         -30 +80 °C           - during storage         -30 +80 °C           - during installation         -30 +80 °C           - d	operating voltage	
number of electrical cores         6           design of the shield         Braided shield made of tin-plated copper wires           outer diameter         -           • of cable sheath         5.4 mm           symmetrical tolerance of the outer diameter / of cable sheath         0.2 mm           material         -           • of the wire insulation         PVC           • of cable sheath         PUR           color         -           • of the insulation of data wires         DIN 47100           • of cable sheath         Black           bending radius         -           • with single bend / minimum permissible         21.6 mm           • with outpipe bends / minimum permissible         43 mm           • with continuous bending         75 mm           number of bending cycles         30000000           tensile load / maximum         200 N           weight per length         45 kg/km           ambient conditions         -           ambient temperature         -30 +80 °C           • during transport         -30 +80 °C           • during installation         -30 +80 °C           • during installation         -30 +80 °C	• maximum	300 V
design of the shield       Braided shield made of tin-plated copper wires         outer diameter       -         • of cable sheath       5.4 mm         symmetrical tolerance of the outer diameter / of cable sheath       0.2 mm         material       -         • of the wire insulation       PVC         • of cable sheath       PUR         color       -         • of the insulation of data wires       DIN 47100         • of cable sheath       Black         bending radius       -         • with single bend / minimum permissible       21.6 mm         • with continuous bending       75 mm         number of bending cycles       3000000         tensile load / maximum       200 N         weight per length       45 kg/km         ambient conditions       -30 +80 °C         • during torage       -30 +80 °C         • during installation       -30 +80 °C         • during installation       -30 +80 °C         • during installation       -30 +80 °C	mechanical data	
outer diameter       5.4 mm         • of cable sheath       5.4 mm         symmetrical tolerance of the outer diameter / of cable sheath       0.2 mm         material       0.2 mm         • of the wire insulation       PVC         • of cable sheath       PUR         color       0 cable sheath         • of the insulation of data wires       DIN 47100         • of cable sheath       Black         bending radius       21.6 mm         • with single bend / minimum permissible       21.6 mm         • with single bend / minimum permissible       43 mm         • with nultiple bends / minimum permissible       43 mm         • with continuous bending       75 mm         number of bending cycles       3000000         tensile load / maximum       200 N         weight per length       45 kg/km         ambient conditions       -30 +80 °C         • during operation       -30 +80 °C         • during storage       -30 +80 °C         • during installation       -30 +80 °C         • during installation       -30 +80 °C         • during installation       -30 +80 °C	number of electrical cores	6
• of cable sheath5.4 mmsymmetrical tolerance of the outer diameter / of cable sheath0.2 mmmaterial• Of the wire insulation• of the wire insulationPVC• of cable sheathPURcolor• Of cable sheath• of the insulation of data wiresDIN 47100• of cable sheathBlackbending radius• With single bend / minimum permissible• with single bend / minimum permissible21.6 mm• with continuous bending75 mmnumber of bending cycles3000000tensile load / maximum200 Nweight per length45 kg/kmambient temperature-30 +80 °C• during storage-30 +80 °C• during installation-30 +80 °C• during installation-30 +80 °C• during installation-30 +80 °C• fre behaviorflame resistant according to IEC 60332-1-2	design of the shield	Braided shield made of tin-plated copper wires
symmetrical tolerance of the outer diameter / of cable sheath       0.2 mm         material       • of the wire insulation       PVC         • of cable sheath       PUR         color       • of the insulation of data wires       DIN 47100         • of cable sheath       Black         bending radius       • vith single bend / minimum permissible       21.6 mm         • with nultiple bend / minimum permissible       43 mm         • with continuous bending       75 mm         number of bending cycles       3000000         tensile load / maximum       200 N         weight per length       45 kg/km         ambient conditions       -30 +80 °C         • during storage       -30 +80 °C         • during installation       -30 +80 °C         • during installation       -30 +80 °C	outer diameter	
material <ul> <li>of the wire insulation</li> <li>of cable sheath</li> <li>PUR</li> </ul> color <ul> <li>of the insulation of data wires</li> <li>DIN 47100</li> <li>of cable sheath</li> <li>Black</li> </ul> bending radius <ul> <li>with single bend / minimum permissible</li> <li>with multiple bends / minimum permissible</li> <li>43 mm</li> <li>with continuous bending</li> <li>75 mm</li> <li>number of bending cycles</li> <li>3000000</li> <li>tensile load / maximum</li> <li>200 N</li> <li>weight per length</li> <li>45 kg/km</li> </ul> ambient conditions           ambient temperature           of during storage <ul> <li>-30 +80 °C</li> </ul>	of cable sheath	5.4 mm
• of the wire insulationPVC• of cable sheathPURcolor-• of the insulation of data wiresDIN 47100• of cable sheathBlackbending radius-• with single bend / minimum permissible21.6 mm• with multiple bends / minimum permissible43 mm• with continuous bending75 mmnumber of bending cycles3000000tensile load / maximum200 Nweight per length45 kg/kmambient conditions-ambient temperature • during operation-30 +80 °C• during installation-30 +80 °C• during installation-30 +80 °C• during installation-30 +80 °C• during installation-30 +80 °C• fre behaviorflame resistant according to IEC 60332-1-2	symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
• of cable sheathPURcolorDIN 47100• of cable sheathBlackbending radius21.6 mm• with single bend / minimum permissible21.6 mm• with multiple bends / minimum permissible43 mm• with continuous bending75 mmnumber of bending cycles3000000tensile load / maximum200 Nweight per length45 kg/kmambient temperature-30 +80 °C• during operation-30 +80 °C• during installation-30 +80 °C• during installation-30 +80 °Cfire behaviorfame resistant according to IEC 60332-1-2	material	
color• of the insulation of data wiresDIN 47100• of cable sheathBlackbending radius21.6 mm• with single bend / minimum permissible43 mm• with multiple bends / minimum permissible43 mm• with continuous bending75 mmnumber of bending cycles3000000tensile load / maximum200 Nweight per length45 kg/kmambient conditions-30 +80 °C• during operation-30 +80 °C• during transport-30 +80 °C• during installation-30 +80 °C• during installation-30 +80 °C• fre behaviorfame resistant according to IEC 60332-1-2	<ul> <li>of the wire insulation</li> </ul>	PVC
• of the insulation of data wiresDIN 47100• of cable sheathBlackbending radius21.6 mm• with single bend / minimum permissible21.6 mm• with multiple bends / minimum permissible43 mm• with continuous bending75 mmnumber of bending cycles3000000tensile load / maximum200 Nweight per length45 kg/kmambient conditions	of cable sheath	PUR
• of cable sheathBlackbending radius21.6 mm• with single bend / minimum permissible21.6 mm• with multiple bends / minimum permissible43 mm• with continuous bending75 mmnumber of bending cycles3000000tensile load / maximum200 Nweight per length45 kg/kmambient conditions-30 +80 °C• during operation-30 +80 °C• during storage-30 +80 °C• during installation-30 +80 °C• during installation-30 +80 °C• fire behaviorflame resistant according to IEC 60332-1-2	color	
bending radius       21.6 mm         • with single bend / minimum permissible       21.6 mm         • with multiple bends / minimum permissible       43 mm         • with continuous bending       75 mm         number of bending cycles       3000000         tensile load / maximum       200 N         weight per length       45 kg/km         ambient conditions	<ul> <li>of the insulation of data wires</li> </ul>	DIN 47100
• with single bend / minimum permissible21.6 mm• with multiple bends / minimum permissible43 mm• with continuous bending75 mmnumber of bending cycles3000000tensile load / maximum200 Nweight per length45 kg/kmambient conditions30 +80 °C• during storage-30 +80 °C• during installation-30 +80 °C	of cable sheath	Black
• with multiple bends / minimum permissible43 mm• with continuous bending75 mmnumber of bending cycles3000000tensile load / maximum200 Nweight per length45 kg/kmambient conditions-30 +80 °C• during operation-30 +80 °C• during storage-30 +80 °C• during installation-30 +80 °Cfire behaviorflame resistant according to IEC 60332-1-2	bending radius	
• with continuous bending75 mmnumber of bending cycles3000000tensile load / maximum200 Nweight per length45 kg/kmambient conditionsambient temperature-30 +80 °C• during storage-30 +80 °C• during transport-30 +80 °C• during installation-30 +80 °Cfire behaviorflame resistant according to IEC 60332-1-2	<ul> <li>with single bend / minimum permissible</li> </ul>	21.6 mm
number of bending cycles3000000tensile load / maximum200 Nweight per length45 kg/kmambient conditionsambient temperature• during operation-30 +80 °C• during storage-30 +80 °C• during transport-30 +80 °C• during installation-30 +80 °Cfire behaviorflame resistant according to IEC 60332-1-2	<ul> <li>with multiple bends / minimum permissible</li> </ul>	43 mm
tensile load / maximum200 Nweight per length45 kg/kmambient conditionsambient temperature• during operation-30 +80 °C• during storage-30 +80 °C• during transport-30 +80 °C• during installation-30 +80 °Cfire behaviorflame resistant according to IEC 60332-1-2	<ul> <li>with continuous bending</li> </ul>	75 mm
weight per length45 kg/kmambient conditionsambient temperature• during operation• during storage• during storage• during transport• during installation-30 +80 °C• during installation-30 +80 °Cfire behavior	number of bending cycles	300000
ambient conditions         ambient temperature         • during operation         • during storage         • during transport         • during installation         • during installation         fire behavior	tensile load / maximum	200 N
ambient temperature• during operation• during storage• during storage• during transport• during installation• during installation• fire behaviorfire behavior	weight per length	45 kg/km
• during operation-30 +80 °C• during storage-30 +80 °C• during transport-30 +80 °C• during installation-30 +80 °Cfire behaviorflame resistant according to IEC 60332-1-2	ambient conditions	
• during storage       -30 +80 °C         • during transport       -30 +80 °C         • during installation       -30 +80 °C         fire behavior       flame resistant according to IEC 60332-1-2	ambient temperature	
• during transport     -30 +80 °C       • during installation     -30 +80 °C       fire behavior     flame resistant according to IEC 60332-1-2	during operation	-30 +80 °C
• during installation     -30 +80 °C       fire behavior     flame resistant according to IEC 60332-1-2	during storage	-30 +80 °C
fire behavior flame resistant according to IEC 60332-1-2	during transport	-30 +80 °C
	during installation	-30 +80 °C
class of burning behaviour / according to EN 13501-6 Eca	fire behavior	flame resistant according to IEC 60332-1-2
	class of burning behaviour / according to EN 13501-6	Eca

	-
chemical resistance	
• to mineral oil	resistant
• to grease	resistant
radiological resistance / to UV radiation	resistant
oduct features, product functions, product components / gen	ieral
product feature	
halogen-free	No
• silicon-free	Yes
andards, specifications, approvals	
JL/ETL listing / 300 V Rating	Yes; CM (only cable without plug)
certificate of suitability	
EAC approval	Yes
eference code	
<ul> <li>according to IEC 81346-2</li> </ul>	WG
according to IEC 81346-2:2019	WGB
ther information / internet links	
nternet link	
<ul> <li>to website: Selection guide for cables and connectors</li> </ul>	https://support.industry.siemens.com/cs/ww/en/view/109766358
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstcloud
<ul> <li>to web page: SiePortal</li> </ul>	https://sieportal.siemens.com/
<ul> <li>to website: Image database</li> </ul>	https://www.automation.siemens.com/bilddb
<ul> <li>to website: CAx-Download-Manager</li> </ul>	https://www.siemens.com/cax
<ul> <li>to website: Industry Online Support</li> </ul>	https://support.industry.siemens.com
curity information	
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